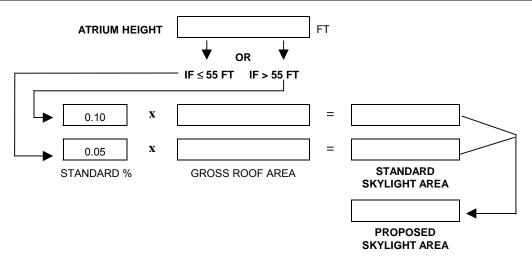
ENVELOPE COMPONENT METHOD PROJECT NAME DATE WINDOW AREA CALCULATION and SKYLIGHT AREA CALCULATION **GROSS WALL** DISPLAY PERI-ATRIUM HEIGHT AREA (GWA) METER (DP) GWA x 0.40 DP x 6 -IF < 55 FT IF > 55 FT GREATER OF X 0.10 If the PROPOSED WINDOW AREA is MAX. ALLOWABLE 0.05 greater than the WINDOW AREA MAXIMUM **GROSS ROOF AREA** ALLOWED AREA ALLOWABLE WINDOW AREA, go **PROPOSED** If the ACTUAL SKYLIGHT AREA is greater to another method. WINDOW AREA than the ALLOWED SKYLIGHT AREA, go to Window Wall Ratio = Proposed Window Area another method. Divided by Gross Exterior Wall Area ACTUAL SKY. AREA **OPAQUE SURFACES ASSEMBLY U-FACTOR*** TABLE TYPE VALUES? MAXIMUM **ASSEMBLY NAME HEAT INSULATION R-VALUE* PROPOSED** (eg. Roof, Wall, **ALLOWED** (eq. Wall-1, Floor-1) **CAPACITY PROPOSED** MINIMUM Υ Floor) **ALLOWED** П П П * For each assembly type, meet the minimum insulation R-value or the maximum assembly U-factor. **WINDOWS** PROPOSED RSHG WINDOW NAME **ORIENTATION U-FACTOR** # OF PROP. **ALLOWED** (e.g., Window-1, Window-2) PROP. ALLOW. SHGC Н H/V OHF **RSHG RSHG** N E S W **PANES SKYLIGHTS SKYLIGHT NAME GLAZING U-FACTOR SOLAR HEAT GAIN COEFFICIENT** # OF PROPOSED ALLOWED PROPOSED ALLOWED (e.g., Sky-1, Sky-2) **PANES** With With No Plastic Curb Curb П П П

ENV-2

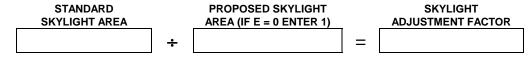
OVERALL ENV	ELOPE METH	OD	(Part 1	of 6)	ENV-2		
PROJECT NAME					DATE		
WINDOW AREA TEST							
A. DISPLAY PERIMETER		FT × 6 =			SF DISPLAY AREA		
B. GROSS EXTERIOR WALL AREA	Α	SF × 0.40 =			SF 40% AREA		
C. GROSS EXTERIOR WALL AREA	Α	SF × 0.10 =			SF MINIMUM STANDARD AREA		
D. ENTER LARGER OF A OR B		_			SF MAXIMUM STANDARD AREA		
E. ENTER PROPOSED WINDOW A	AREA				SF PROPOSED AREA		
F. WINDOW WALL RATIO = Propo	osed Window Area Divided	by Gross Exterio	r Wall Area =	 [
IF E IS GREATER THAN D OR LES PART 2 OF 6.	SS THAN C, PROCEED TO THE	NEXT CALCULATION	ON FOR WINDO	W AREA	ADJUSTMENT. IF NOT, GO TO		
1. IF E IS GREATER THAN D:							
Г	MAXIMUM STANDARD AREA	WIND	PROPOSED WINDOW AREA		WINDOW DJUSTMENT FACTOR		
L		÷	GO TO BART 6	= <u></u>	ULATE ADJUSTED AREA		
2. IF LESS THAN C:			GO TO FART 0	TO CALC	OLATE ADJUSTED AREA		
[MINIMUM STANDARD AREA		D WINDOW E = 0 ENTER 1)	=	WINDOW DJUSTMENT FACTOR		
L			GO TO PART	6 TO CA	LCULATE ADJUSTED AREA		

SKYLIGHT AREA TEST



IF THE PROPOSED SKYLIGHT AREA IS GREATER THAN THE STANDARD SKYLIGHT AREA, PROCEED TO THE NEXT CALCULATION FOR THE SKYLIGHT AREA ADJUSTMENT. IF NOT, GO TO PART 2 OF 6.

1. IF PROPOSED SKYLIGHT AREA ≥ STANDARD SKYLIGHT AREA:



GO TO PART 6 TO CALCULATE ADJUSTED AREAS

OV	ERALL ENVE	LOPE	METH	OD	(F	Part 2 of	6)	E	ENV-2
PROJEC	T NAME						DATE		
OVE	RALL HEAT LOSS								
	Α	В	С	D		E	F	G	Н
			<u> </u>	PROPOSED	TABLE		-	STANDARD	
[ASSEMBLY NAME (e.g. Wall-1, Floor-1)	AREA	HEAT CAPACITY	U-FACTOR	VALUES Y N	3? UA	AREA* (Adjusted)	U-FACTOR	$\begin{matrix} \textbf{UA} \\ (F \times G) \end{matrix}$
]			
LS.						-			-
WALLS						_			
									·
၂ က									
ROOFS/CEILINGS									<u> </u>
									·
FS/									·
凝									
\dashv									
TS						_			
FLOORS/SOFFITS			<u> </u>						<u> </u>
) 									i
英			1				1		<u> </u>
压			1			_	1		<u> </u>
H			A1/A			_	-		
			N/A			_	 		<u> </u>
MS	ES		N/A			-	-		
WINDOWS	#OF PANES		N/A N/A			_	-		
Į₹			N/A N/A						<u>i</u>
			N/A N/A				1		<u> </u>
			N/A						
_S			N/A						
SKYLIGHTS	NES		N/A						
<u> </u>	# OF PANES		N/A			-			<u> </u>
X	0#		N/A						·
			N/A]			
	<u> </u>				<u>. </u>		1 ~		
	* If Window and/or Skylight / is Required, use adjusted a	Area Adjustme areas from par	ent t 6			TOT:	Column be no gre	eater	TOTA:
	of 6.					TOTAL	than colu	ımn H	TOTAL

OVERALL ENVELOPE METHOD (Part 3 of 6)								ENV-	
PROJEC	CT NAME						DATE		
OVE	RALL HEAT GAIN	FROM CON	IDUCTION						
	Α	ВС	D E		F	G	Н		J
		l Ř	PROPOSED	TABLE			STANE	ARD ¥	
	ASSEMBLY NAME	AREA LACTOR	HEAT V	ALUES?	HEAT GAIN	AREA*	U-FACTOR	TEMP. FACTOR	HEAT GAIN
	(e.g. Wall-1, Floor-1)	AREA ##	+ + + + + + + + + + + + + + + + + + + +	Y N	(B ×C ×E)	(Adjusted)	U-PACTOR	FΨ	(G ×H ×I)
			 						
လူ									
WALLS			 						
>									
12									
NGS									
)/S:									
ROOFS/CEILINGS									
ဖွ									
			 						
FLOORS/SOFFITS			 						
<u>8</u>			 						
[윤]			 						
			- 10//\						
WS									
WINDOWS	# OF PANES		- · · · · ·						
፟			 						
-			14// 1						
اررا									
焦	NES		1071						
SKYLIGHTS	# OF PANES								
SS	#		1 1 1						
			, , , , , , , , , , , , , , , , , , , 						
	* If Window and/or Skyligh is Required, use adjusted	t Area Adjustmen	t					Г	
	is Required, use adjusted of 6.	areas from part 6			SUBTOTAL			-	SUBTOTAL

O'	VERALL EN	VEL	OPE	ME	THOD)	(Part	4 of 6)		EN	V -
PRO	JECT NAME								DATE			
OVERALL HEAT GAIN FROM RADIATION OPAQUE SURFACES												
	Α	В	С	D	E	F	G	Н	1	J	К	
			1		l	PROPOS	SED		STAN	DARD		
	ASSEMBLY NAME (e.g. Roof-1)	AREA		WEIGHT FACTOR	U-FACTOR	Absorp α	HEAT GAIN (B×CxD×ExF)	AREA* (Adjusted)		Absorp α	HEAT GAIN (C×DxH×lxJ)	
-												

SUBTOTAL	SUBTOTAL

OVERALL ENVELOPE METHOD (Part 5 of 6) ENV-2														
PROJ	PROJECT NAME DATE													
OVE	ERALL HEAT GA	IN FROM	RAD	IATIC	ON			FEN	ESTF	RATION SU	RFACES			
	Α	В	С	D	Е	F		G	Н	Ι	J	К	L	М
	WINDOW/SKYLIGHT NAME (e.g Window-1, Sky-1)	WEIGHTING FACTOR	AREA	SOLAR FACTOR	SHGC		OVER V	HANG	OHF	HEAT GAIN (BxCx DxExH)	AREA (Adjusted)	RSHG or * SHGC**	SOLAR FACTOR	HEAT GAIN (B×J×K×L)
NORTH														
EAST														
SOUTH														
WEST														
SKYLIGHTS						N/A N/A N/A N/A	N/A N/A N/A N/A	N/A N/A N/A N/A	N/A N/A N/A N/A					
ż	* If Window and/or Skyligh Adjustment is Required, areas from part 6 of 6.	nt Area use adjusted	** Only	y SHGC or Skylig	is	Pa	rt 3 Si rt 4 Si rt 5 Si	ubtota	ıl		Pa	rt 3 Subtota rt 4 Subtota rt 5 Subtota	al	

TOTAL

Column I must be less than column M

TOTAL

OVERALL EN	NVELOPE N	ENV-2					
PROJECT NAME					D	ATE	
WINDOW AREA AD	JUSTMENT CAL	CULATIO	NS				
CHECK IF NOT APPLIC	ABLE (see Part 1 of 6)				E	F	G
A		В	С	D	WINDOW ADJUSTMENT	ADJUSTED WINDOW	ADJUSTED WALL
WALL NAME (e.g. Wall-1, Wall-2)	ORIENTATION N E S W	GROSS AREA	DOOR	WINDOW AREA	FACTOR (From Part 1)	AREA (D×E)	AREA B-(F+C)
	TOTALS:						
SKYLIGHT AREA A	DJUSTMENT CAI	LCULATIO	ONS				
CHECK IF NOT APPLIC	CABLE (see Part 1 of 6)			D	E		F
A POOE NAME	В	C		SKYLIGHT ADJUSTMENT	ADJUS' SKYLIC	SHT	ADJUSTED ROOF
ROOF NAME (e.g. Roof-1, Roof-2)	GROSS AREA	SKYLIGH AREA		FACTOR (From Part 1)	ARE. (C×D		AREA (B - E)
TOTALS:							